

AMENDMENTS TO THE SPECIFICATION

Amend the paragraph on page 16, lines 20-38, as follows:

To generate a polyclonal serum against the dihydroorotase polypeptide, a peptide sequence from the potato dihydroorotase amino acid sequence was chosen. The peptide LGTDSAPHDRRRKEC (SEQ ID NO:5) was synthesized by a commercial company (Eurogentec, Seraing, Belgium) and coupled to KLH (keyhole limpet protein) via the C-terminal cysteine. The conjugate was employed, again, by the commercial company (Eurogentec) for immunizing rabbits and antisera against the peptide were obtained. In Western blot experiments, the antiserum specifically recognizes the potato polypeptide. To this end, protein was subjected to an SDS polyacrylamide gel electrophoresis under denaturing conditions, transferred to nitrocellulose membranes and detected by means of immunodetection following the manufacturer's instructions (ECL-System, Amersham). Transgenic plants of the ROSa lines were characterized with the aid of the antiserum. Lines -3, -9 and -40 show different degrees of protein reduction in the leaf, see Figure 2. Plant -40 does not form tubers. Plants -3 and -9 also show a correspondingly greatly reduced dihydroorotase protein quantity in tubers.

Amend the paragraph on page 17, lines 15-17, as follows:

1. 5'-primer aaggatccGCAAAAATGGAGCTCTCA (SEQ ID NO:6)
2. 3'-primer aaggatccTCAGAGAGGAGCCGGCAAC (SEQ ID NO:7)

Amend the paragraph on page 18, lines 20-22, as follows:

1. 5'–primer aaggatccatggccggaagggctg (SEQ ID NO:8)
2. 3'–primer aaggatccttagtggtggtggtggtgtttgtgggatggggc (SEQ ID NO:9)

Delete the sequence listing on separate pages 1-10 and substitute replacement separate pages 1-9 attached hereto.